

**TOPOGRAPHIC SURVEY CONTROL POINT RECORD**

STATION LONG NAME	MU16
STATION NUMBER	MU16
4 CHAR ID	MU16
COUNTRY	IRAQ
LOCATION	AL MUTHANNA
SURVEYING AGENCY	IGRS
DATE (OF DESCRIPTION)	04 JUL 05

CONTENTS	YES	NO	NO OF PAGES
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OFFICE COORDINATE VALUES	X		1
STATION MONUMENT & SITE DETAILS	X		1
STATION DIAGRAM	X		1
ACCESS MAP	X		1
ACCESS DESCRIPTION	X		1
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CARDINAL POINT PHOTOGRAPHS	X		2

**RECORD OF VISITS**

DATE OF VISIT	NAME	UNIT	REMARKS

**ADDITIONAL DETAILS/ENCLOSURES**

CONTENTS	NO OF PAGES

## **FIELD COORDINATE VALUES**

<b>STATION LONG NAME</b>	<b>MU16</b>
<b>4 CHAR ID</b>	<b>MU16</b>
<b>STATION NUMBER</b>	<b>MU16</b>

<b>THIS STATION IS NEW</b>	<b>YES</b>
<b>IDENTICAL / NEARLY IDENTICAL WITH</b>	<b>N/A</b>

### **FIELD VALUES** **FROM THE RECEIVER / HAND HELD GPS – IN WGS84**

<b>LATITUDE N</b>	<b>31° 01' 35.10''</b>
<b>LONGITUDE E</b>	<b>045° 06' 03.20''</b>
<b>HT (M)</b>	<b>+8</b>
<b>GRID ZONE DESIGNATOR</b>	<b>38R</b>
<b>UTM / MGRS GRID</b>	<b>38R NV 096 325</b>
<b>SURVEYING AGENCY</b>	<b>IGRS</b>

<b>FIELD INPUT BY: L/CPL COWARD</b>	<b>UNIT: IGRS</b>	<b>DATE: 04 JUL 05</b>
<b>FIELD CHECKED BY: CPL RIGGOTT</b>	<b>UNIT: IGRS</b>	<b>DATE: 04 JUL 05</b>

## OFFICE COORDINATE VALUES

### WGS 84 ADJUSTED VALUES AS AT: 25 Aug 05

LATITUDE N	31° 01' 35.17385"
LONGITUDE E	045° 06' 03.20308"
SPHEROIDAL HT (M)	64.032
EGM96 GEOID MODEL HT (M)	-6.334
ORTHOMETRIC HT (M)	70.366
VERTICAL DATUM	WGS 84
GEOID MODEL USED	EGM 96
RELATIVE TO	CORS STATIONS
RELATIVE POSITION ACCURACY	0.027
RELATIVE HEIGHT ACCURACY	0.031
ADJUSTING AGENCY	OPUS
ADJUSTMENT DATE	25 AUG 2005

### LOCAL DATUM VALUES AS AT: 25 Aug 05

SPHEROID	N/A
PROJECTION	N/A
GRID	N/A
VERTICAL DATUM	N/A
LATITUDE N / S	N/A
LONGITUDE E / W	N/A
EASTINGS (M)	N/A
NORTHINGS (M)	N/A
SPHEROIDAL HT (M)	N/A
ORTHOMETRIC HT (M)	N/A
GRID ZONE DESIGNATOR	N/A
TRANSFORMATION AGENCY	N/A
TRANSFORMATION DATE	N/A

GRAVITY VALUE: N/A	TYPE OF STN: N/A	REF: N/A
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AIR PHOTO: N/A	REF: N/A	SCALE: N/A
IMAGERY: N/A	REF: N/A	SCALE: N/A

OFFICE INPUT BY: LCPL COWARD	UNIT: IGRS	DATE: 25 AUG 2005
OFFICE CHECKED BY: LCPL DICKEN	UNIT: IGRS	DATE: 25 AUG 2005

## STATION MONUMENT AND SITE DETAILS

<b>STATION LONG NAME: MU16</b>	
<b>STATION NUMBER: MU16</b>	<b>4 CHAR ID: MU16</b>
<b>LOCATION: AL MUTHANNA</b>	<b>COUNTRY: IRAQ</b>
<b>STATION ADDRESS:</b> N/A	
<b>TEL: N/A</b>	<b>FAX: N/A</b>
<b>LAND OWNER ADDRESS:</b> N/A	
<b>TEL: N/A</b>	<b>FAX: N/A</b>
<b>TYPE OF MARK: HARN</b>	
<b>CONDITION: GOOD</b>	
<b>MARK SETTING: FINE MARK ON REBAR</b>	<b>NO OF REBARS: 3</b>

### MONUMENT PHOTO / SKETCH



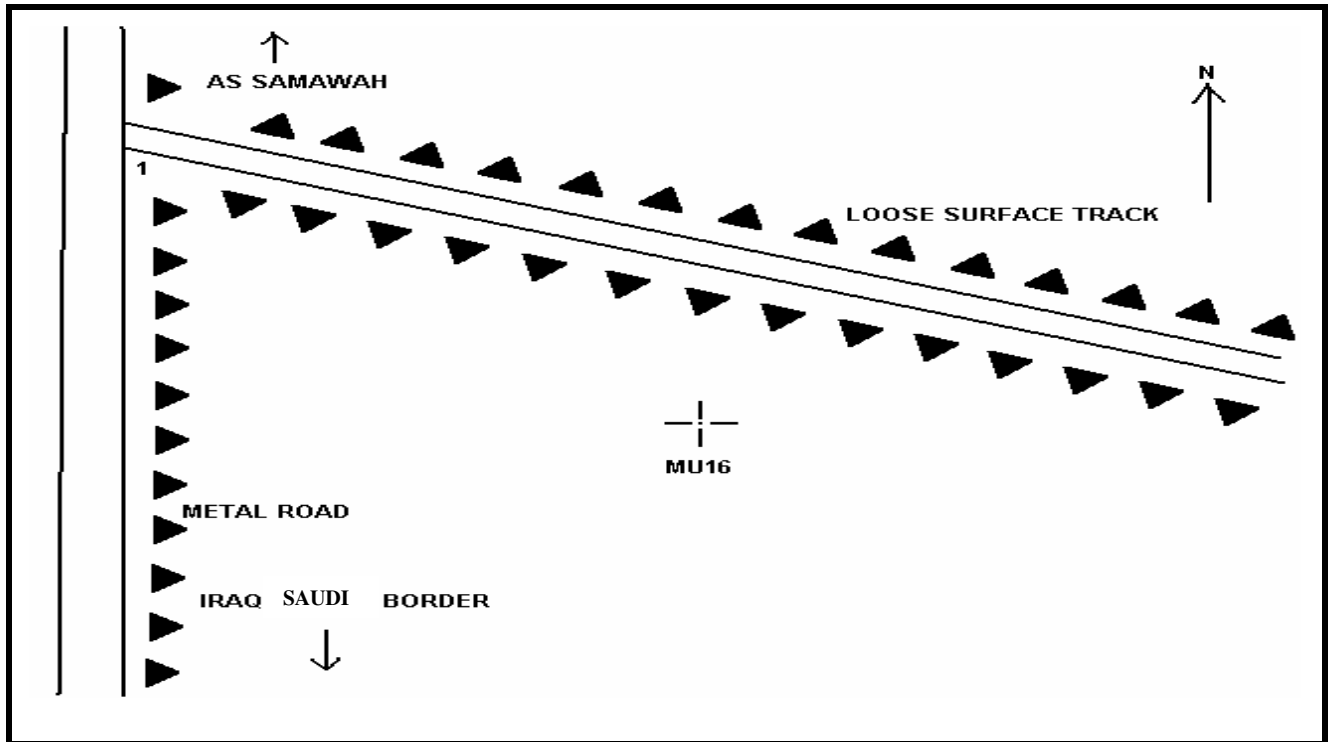
<b>PREPARED BY: L/CPL COWARD</b>	<b>UNIT: IGRS</b>	<b>DATE: 04 JUL 05</b>
<b>CHECKED BY: SPR LOCKHART</b>	<b>UNIT: IGRS</b>	<b>DATE: 04 JUL 05</b>

# STATION DIAGRAM

STATION LONG NAME: MU16

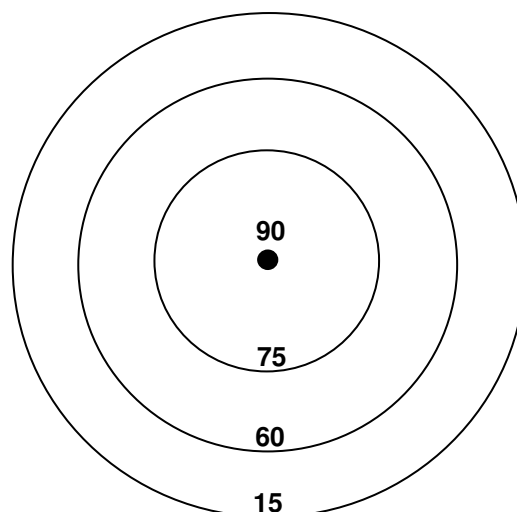
STATION NUMBER: MU16

4 CHAR ID: MU16



NO	DESCRIPTION	BRG/HORZ ANGLE	DISTANCE m
1	ROAD JUNCTION	136°	70
2			
3			
4			

## OBSCURITY DETAILS



PREPARED BY: LCPL COWARD	UNIT: IGRS	DATE: 04 JUL 05
CHECKED BY: SPR LOCKHART	UNIT: IGRS	DATE: 04 JUL 05

## ACCESS MAP

STATION LONG NAME: MU16

STATION NUMBER: MU16

4 CHAR ID: MU16

MAP DETAILS

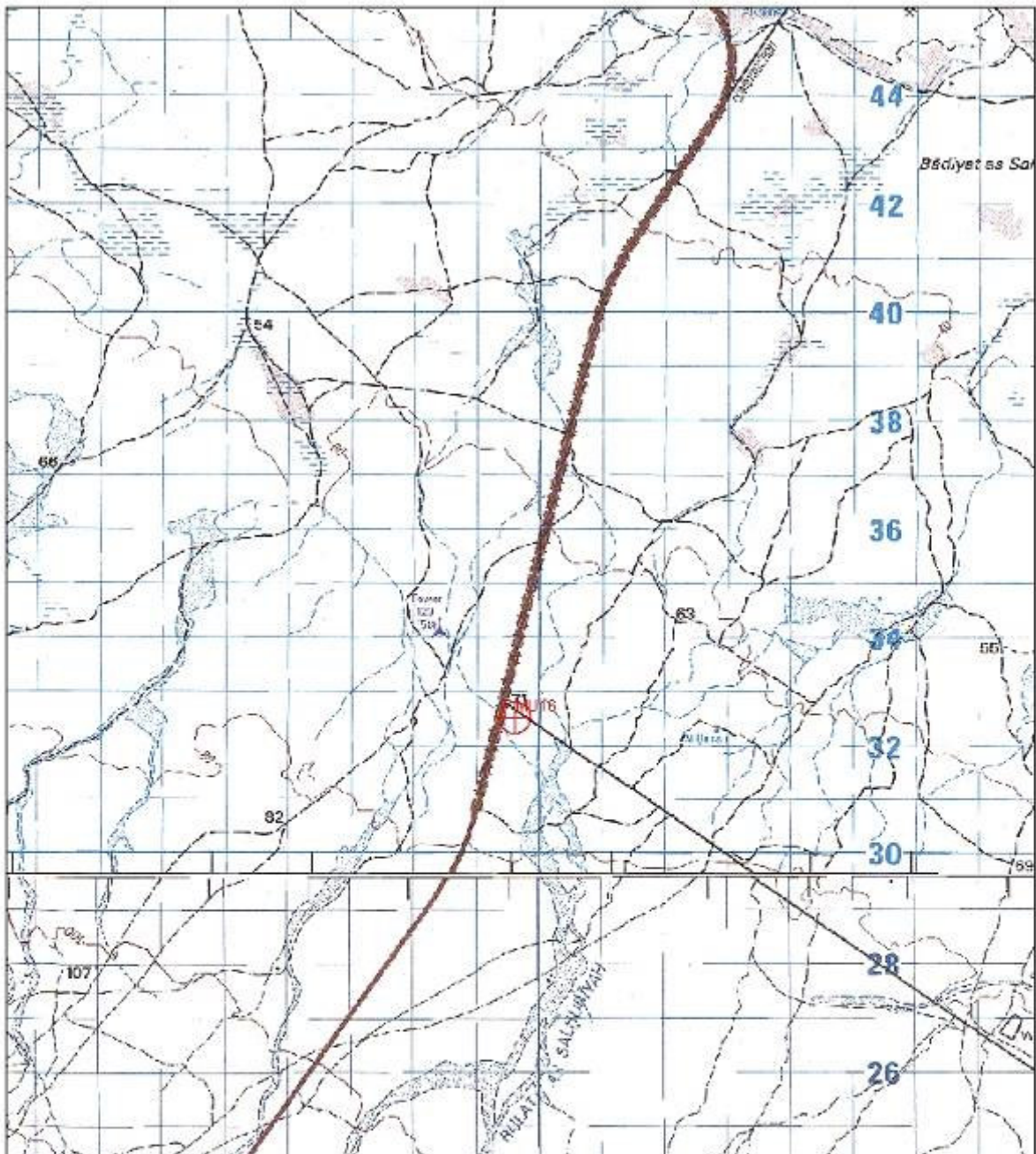
SERIES: K643

SHEET: 5052

EDITION: 4-NIMA

SCALE: 1: 100 000

GR: 38R NV 096 325



PREPARED BY: SPR WILLIE

UNIT: IGRS

DATE: 05 JUL 05

CHECKED BY: SPR LOCKHART

UNIT: IGRS

DATE: 05 JUL 05

## ACCESS DESCRIPTION

<b>STATION LONG NAME: MU16</b>	
<b>STATION NUMBER: MU16</b>	<b>4 CHAR ID: MU16</b>

<b>MAP DETAILS</b>	<b>SERIES: K643</b>	<b>SHEET: 5052</b>
<b>EDITION: 4-NIMA</b>	<b>SCALE: 1: 100 000</b>	<b>GR: 38R NV 096 325</b>

From major road junction West of As Samawah Grid reference 38R NV066 597. Follow metal road South for approximately 29 kilometres up to a track road traveling East at Grid Reference NV 095 329. Follow track for approximately 300m. Point is South of track approximately 60m Grid Reference 38R NV 0962 3253. Harn identified by orange Survey Marker marks the point. The fine point is an indent on the head of rebar/rod.

<b>PREPARED BY: SPR WILLIE</b>	<b>UNIT: IGRS</b>	<b>DATE: 05 JUL 05</b>
<b>CHECKED BY: SPR LOCKHART</b>	<b>UNIT: IGRS</b>	<b>DATE: 05 JUL 05</b>

## APPROACH PHOTOGRAPHS

STATION LONG NAME: MU16	
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NEAR APPROACH FACING WEST



FAR APPROACH FACING WEST



TAKEN BY: LCPL COWARD	DATE TAKEN: 04 JUL 05
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## CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU16	
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**NORTH**



**SOUTH**



TAKEN BY: LCPL COWARD	DATE TAKEN: 04 JUL 05
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## CARDINAL PHOTOGRAPHS

STATION LONG NAME: MU16	
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**EAST**



**WEST**



TAKEN BY: LCPL COWARD	DATE TAKEN: 04 JUL 05
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